$1.00

MCCC NEWS

Mid-Cities Commodore Club, Inc.

January 1985 Vol. 3 Issue 1

HAPPY NEW YEAR!

Congratulations to all the participants in our contest to discover new ideas for the club logo. We consider you all winners.

The judges included Garry Wordelman, David Glazener, Larry Weist, David Rye and Francine Wharton. They reported having a difficult time deciding the winners. After a long deliberation they awarded the following winners.

1st Place - Bruce Nelson
2nd Place - Barbara Cramer

Other entries winning an MCCC cap are Roy Baker and Lenard Lopez. The judges recommend that the club adopt a logo that consists of a combination of the two winners' entries. Bruce and Barbara have already worked on this project and you will notice the results in this issue.

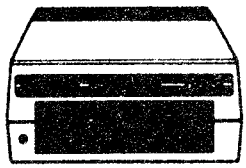
President's Column

Just a word of introduction for those of you who don't know me. I bought my C64 in July of 1983. I got it for the kids. I figured I could get some educational software that might help them in school. But then the unexpected happened - I was had a ball with it and they haven't been able to pry me away from it long enough to get any use out of it at all.

I joined the MCCC in September of 1983. It has offered me two things which I need. First, it is an excellent source of public domain software (some of which is educational for the kids to use when I'm not around). Second, it has provided a place where I can find out new information about my computer that I might not have otherwise known. To me, these two things are what our club is all about.

For the coming year, I would like to see our club do more in the area of education. Every presentation that we sponsor is educational to some degree, but we have had little in the way of formal classes. I would like to see us develop classes in BASIC, COMAL and MACHINE LANGUAGE, and, we could easily repeat the introductory classes recently held in Arlington.

Continued on page 3



SOF-TEX

Disk Drive Service

Service Calls Available

ROGER HOGGARD
(817) 281-2608

The MCCC NEWS is the official publication of the Mid-Cities Commodore Club (Dallas/Ft. Worth, TX). Editorial contributions are welcome from anyone anywhere in the world of Commodore. We welcome readers' comments, especially regarding any significant errors or omissions, and we will attempt to publish any corrections in later issues.

Material printed in the MCCC NEWS is not copyrighted and may be reprinted or copied by other user groups or individuals who find it helpful. We only ask that you give credit to the author and mention the MCCC NEWS as the source.

The MCCC NEWS accepts advertising from both members of the club and from commercial establishments. This is an opportunity to reach over 500 members of Commodore computers.

Member rates are free for classified ads. These ads must be computer related and not of a commercial nature. A commercial ad is defined as one where you are running a business and are selling the same item or items to many people. Members submitting such ads will be charged commercial rates.

COMMERCIAL RATES are as follows: $60.00 per full page ad; $30.00 per half page ad; $20.00 per quarter page ad; and $10.00 per business card. Non-members will pay commercial rates.

The deadline for submissions to the MCCC NEWS will be the first day of each month. PAYMENT MUST ACCOMPANY AD COPY. Make all checks payable to 'Mid-Cities Commodore Club' and mail the ad copy along with your check to: Michael Cramer, 1353 Kathryn Court, Hurst, TX 76053.

COMING UP

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	(5)
6	7	8	9	10	11	(12)
13	14	15	16	17	18	(19)
20	(21)	(22)	23	24	25	26
27	28	29	30	31		

January 19th is the Newsletter deadline for February issue.

MEETINGS

Jan. 5 Board of Directors Mtg. 10 AM
Hurst Public Library

Jan. 12 Arlington Chapter 10:30 AM
Arlington Public Library

Grand Prairie Chapter 1:30 PM
Grand Prairie Public Library

Jan. 19 HEB Chapter 1:30 PM
Hurst Recreation Center

Ft. Worth Chapter 1:30 PM
GDRA, Room 3

Jan. 21 Ft. Worth Chapter 7 PM
Forest Hill Presbyterian Church (1 mile North of #820)

Jan. 22 Grand Prairie Chapter 6:00 PM
Grand Prairie Public Library

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Feb. 2 Board of Directors Mtg. 10 AM
Hurst Public Library

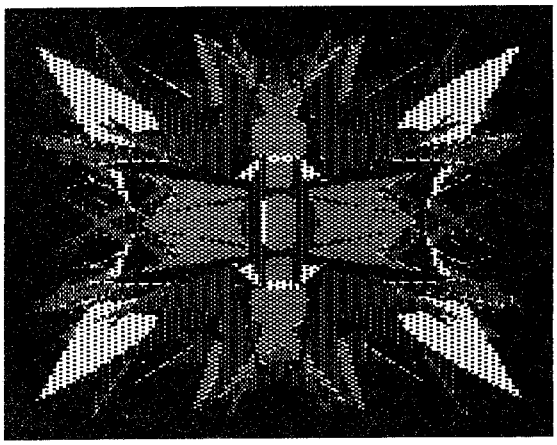
Feb. 9 Arlington Chapter 10:30 AM
Arlington Public Library

Grand Prairie Chapter 1:30 PM
Grand Prairie Public Library

(President's Column Cont'd)

My ideas for the club are based on my own desires and the input which I have received from others. In order for the MCCC to continue to be a sucess, we need to hear the opinions and desires of our members. If there is something you would like us to sponsor, tell someone. If everyone contributes, our club can continue to grow as it has in the past. And we all benefit from that growth.

Bill Raecke



We need artists to submit computer generated drawings for the newsletter. Send designs to the editors. Please include name and phone number.

1985 OFFICERS

CLUB OFFICERS

President	Bill Raecke	465-2014
Vice-President	Harold Williams	483-0537
Treasurer	Bruce Nelson	498-0899
Secretary	Dana Taylor	457-9070
Librarian	Dan Branum	283-3621
Ed. Chrmn.	Garry Wordelman	281-7457
Past President	Diane Dews	485-4747

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Vice-President	Dave Rodgers	460-7706
Secretary	Jonathan Piba	274-5782
Treasurer	Clem Countess	275-5072
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	Larry Dehmel	860-0924
	Daryl Simmons	465-9152
Reporter	Charlie Davidson	429-5737

FT. WORTH CHAPTER OFFICERS

President	Mary Hagemeyer	732-0982
Vice-Pres.	David Huebner	244-1463
Sec./Reporter	Randy Jellison	294-7337
Librarians	Gary & Jill Campbell	297-4125

HURST-EULESS-BEDFORD CHAPTER OFFICERS

President	David Rye	465-2014
Vice-Pres.	Laura Clements	589-0659
	Cary Blocker	838-6252
Treasurer	Bruce Nelson	498-0899
Sec./Reporter	Laura Clements	589-0659
Librarian	Tony Velez	282-7774
Ed. Chrmn.	Tony Velez	282-7774
Searget-at-Arms	Dan Branam	283-3621
C-64 Leaders	Roy Baker	283-0324
	Dan Branam	283-3621
	Roger Hoggard	281-2608
Vic-20 Leader	Cary Blocker	838-6252
Modem Leader	Roger Hoggard	281-2608

Chapter Representatives to the Board of Directors

David Rye	465-2014
Roy Baker	283-0324
Roger Hoggard	281-2608
Randy Kusiv	485-7491
Okley Moss	282-7751

GRAND PRAIRIE CHAPTER OFFICERS

President	Harry Spencer	642-7385
Vice-Pres.	Mac McClure	337-2427
Sec./Reporter	Ray Sloan	330-6976
Treasurer	Roy Hill	262-7222
Librarian	Henry Barbe	660-3775
Asst. Librarian	Billy Lee	641-6521
Activity Chrmn.	Pat Hunt	264-7012

MID-CITIES COMMODORE CLUB, INC.

BOARD MEETING

The Board of Directors met Dec. 1 at the Hurst Recreation Center with 17 members present.

After discussions about the December Club Meeting and the Logo Contest, the first order of business was taken up concerning the repair of the Cramer's disk drive which is used heavily to produce the newsletter. It was unanimously agreed to provide the funds ($85.00 + postage) to send the drive back to Commodore under their repair/replace policy.

Bruce Nelson indicated he would provide a full financial statement in January showing the club's year and financial status.

The Ft. Worth Night group petitioned to become a chapter by presenting a list of members who regularly attend their meetings. The petition was approved and their adoption of a name and officers will follow their first meeting.

THE "SEASON" IS HERE

By Tom D'Angelo

Reprinted courtesy of the Catalina Commodore Computer Club, Tucson, Arizona.

With winter comes more time spent indoors and maybe more time spent on our computers. It is also the season when we turn on house furnaces and the indoor humidities drop to very low values. Combine the low humidities and all the synthetic fibers that we have in our rugs and clothing and static electricity becomes a menace to our computers. In the past month, I have replaced over a dozen of the same kind of "chip" (integrated circuit) that is the "switch house" of the C-64. One or less a month is the usual average. In a couple of months another type of chip will be failing in greater numbers as our humidity drops even lower later in the winter.

The Commodore computer is especially vulnerable to static discharges because of both its plastic case (that does not dissipate the static charge the way a metal case would when we touch it) and because of the exposed contact terminals around the outside of the C-64. The joystick ports are extremely bad in this respect since they are close to the power switch and our fingers usually brush the pins when we feel for the power switch to turn the computer on and off. Another contributing factor is that Commodore, in trying to keep the cost of the C-64 down, did not buffer (put protection devices) between the delicate chips and the outside world. What complicates and makes the situation even worse is the flexibility of the Commodore in that we as users are constantly changing cartridges, joysticks and plugging or unplugging modems or "dongles" (protection devices that allow certain programs to run). All of the above combine to increase the exposure of our computers to damage from static electricity. In our dry climate, building a static charge on ourselves of 40,000 or 50,000 volts while walking across a rug would not be unheard of.

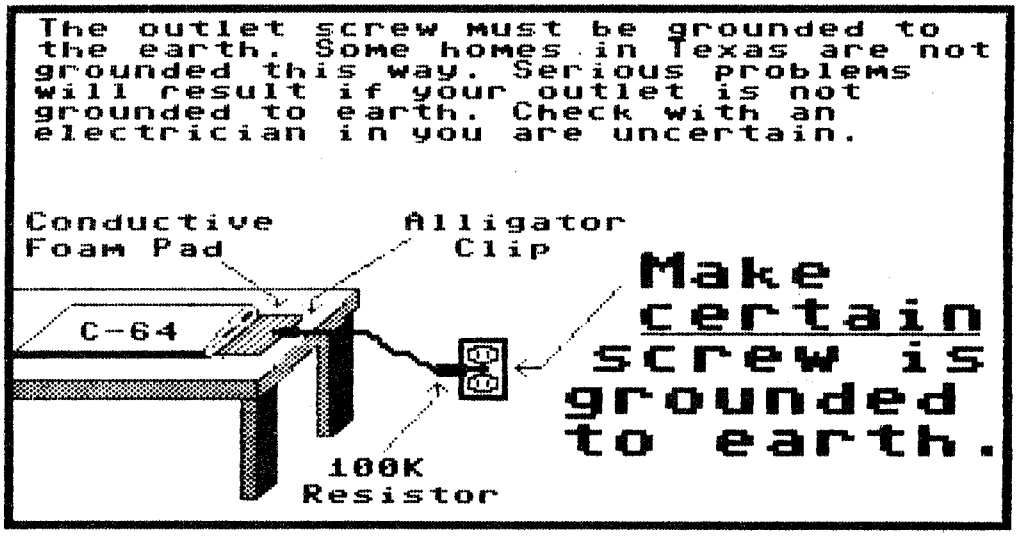
Well, now that we know all this, what can we do about it?

Although it takes some equipment and discipline, it's not as hopeless as it might seem. A solution of a capful of 'Downy' to a pint of water sprayed on household rugs every month or so will help. Covering up the ports on the back of the computer with cardboard flaps that have to be raised to insert anything will also help. Covering the joystick ports with at least three layers of plastic electrician's tape will still provide easy access to the ports and offer protection when the joysticks are not plugged in. The best protection is to attach a static grounding strap (Radio Shack P/N 276-2399; $1.99) to yourself before touching the computer, but for most of us that wouldn't be feasible.

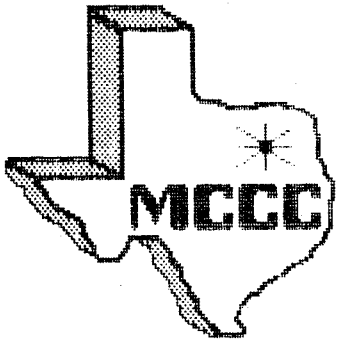
The next best method is to make an inexpensive static grounding touchpad. Radio Shack sells a 5"x5" conductive foam rubber mat (P/N 276-2400) for

$.89. You can attach this pad to the grounded center screw of any wall outlet by a wire with an alligator clip on it. For an added personal safety factor a 100K OHM resistor should be connected to the outlet screw and then the wire attached to the other end of the resistor. Then clip the alligator clip to the foam rubber. An alternative to using the resistor is covering the alligator clip with insulation so you can't touch it. You don't want to provide too low a grounding path for yourself since that can be dangerous. To use the touch pad, leave it sticking out from under the right side of the C-64 underneath the joystick ports & power switch. Discipline yourself and other household computer users to touch this pad before touching anything on the side or back of the computer.

The 'Downy', the tape and the touchpad should go a long way to give your chips a longer life in your computer.



FT. WORTH CHAPTER MEETING
Jan. 12, 1985
1:30 PM
Room 2 G.D.R.A.
Program: Fuzzy Wiest will provide a light pen demo and T.S. Creasy will give a first look at the new COMAL 2.0 cartridge.



HEADLINES & GRAPHICS WERE DRAWN USING DOODLE! & PRINT SHOP

GRAND PRAIRIE CHAPTER MEETINGS
Jan. 12, 1985
1:30 PM
Grand Prairie Public Library
Program: Business meeting followed by ad hoc computer sessions.

Jan 22, 1985
6:00 PM
Grand Prairie Public Library
Program: General Individual Computer Workshops.

MEMBER WANT AD

FOR SALE

AMDEK COLOR MONITOR, ONE YEAR OLD, $220.00. CALL ROBERT AT 457-5719

PRINTER COMMANDS
A Reference Guide

V. Kramer

Reprinted courtesy of San Fernando Valley Commodore User's Group.

COMMON PRINTER COMMANDS FOR VARIOUS PRINTERS

FUNCTION	GEMINI 10-X	EPSON MX	NEC 8023	C.ITOH 1550	DYNAX DX-15
SELECT STANDARD CHARACTER SET	ESC "5" 27,53	ESC "5" 27,53	ESC $ 27,36	ESC $ 27,36	
SELECT ITALICS	ESC "4" 27,52	ESC "4" 27,52			
SELECT INTERNATIONAL	ESC "7" n 27,55,n n= 0 USA 1 ENGLAND 2 GERMANY 3 DENMARK 4 FRANCE 5 SWEDEN 6 ITALY 7 SPAIN			ESC & 27,38 (GREEK)	
PICA (10 CPI)	ESC B 1 27,66,1		ESC N 27,78	ESC N 27,78	
ELITE (12 CPI)	ESC B 2 27,66,2		ESC E 27,69	ESC E 27,69	
CONDENSED (17 CPI)	ESC B 3 27,66,3	DC2 18	ESC Q 27,81	ESC Q 27,81	
DOUBLE WIDTH PRINT **	SO OR ESC SO OR ESC W 1 14 OR 27,14 OR 27,87,1	SO OR ESC W 1 14 OR 27,87,1 OR 143	SO OR DC2 14 OR 18	SO 14	
CANCEL DOUBLE WIDTH **	DC4 OR ESC W 0 20 OR 27,87,0	DC4 OR ESC W 0 20 OR 27,87,0 OR 148	SI OR DC4 15 OR 20	SI 15	
DOUBLE-STRIKE PRINTING	ESC G	ESC G			ESC F 27,70
DOUBLE-STRIKE OFF	ESC H 27,72	ESC H 27,72			ESC & 27,38
EMPHASIZED	ESC E 27,69	ESC E 27,69	ESC ! 27 33	ESC ! 27,33	ESC 0 27,79
EMPHASIZED OFF	ESC F 27,70	ESC F 27,70	ESC " 27,34	ESC " 27,34	ESC & 27,38
UNDERLINE ON	ESC - 1 27,45,1	ESC - 1 27,45,1	ESC X 27,88	ESC X 27,88	ESC E 27,69

FUNCTION	GEMINI 10-X	EPSON MX	NEC 8023	C.ITOH 1550	DYNAX DX-15
UNDERLINE ON	ESC - 1 27,45,1	ESC - 1 27,45,1	ESC X 27,88	ESC X 27,88	ESC E 27,69
UNDERLINE OFF	ESC - 0 27,45,0	ESC - 0 27,45,0	ESC Y 27,89	ESC Y 27,89	ESC R 27,82
SUPERSCRIPT	ESC S 0 27,83,0	ESC S 0 27,83,0			
SUPERSCRIPT OR SUBSCRIPT OFF	ESC T 27,84	ESC T 27,84			
SUBSCRIPT	ESC S 1 27,83,1	ESC S 1 27,83,1			
1/6 INCH LINE FEEDS	ESC "0" 27,48	ESC "0" 27,48	ESC A 27,65	ESC A 27,65	
1/8 INCH LINE FEEDS	ESC "1" 27,49	ESC "1" 27,49	ESC B 27,66	ESC B 27,66	
7/72 INCH LINE FEEDS	ESC "2" 27,50	ESC "2" 27,50			
N/72 INCH LINE FEEDS	ESC A n 27,65,n n= 1-127	ESC A n 27,65,n n= 1-85			
N/144 INCH LINE FEEDS	ESC "3" n 27,51,n n= 1-127		ESC T n1 n2 27,84,n1,n2 n1,n2 per specs	ESC T n1 n2 27,84,n1,n2 n1,n2 per specs	
N/216 INCH LINE FEEDS		ESC "3" n 27,51,n n= 1-255			
SOUND BUZZER	BEL 7	BEL 7 OR 135			BEL 7
INITIALIZE PRINTER	ESC @ 27,64	ESC @ 27,64			

The codes shown indicate only a few of the functions the printers' capabilities. These are probably the most commonly used functions and, when used with other articles in The Users Port, will enable you to make better use of your printer and to translate programs for or from other printers. Do not use this chart to compare the power of the printers - it is not complete enough to give a true picture! (for your curiosity, the Gemini-10X seemed to be the most powerful of the printers listed.)

The first line for each function gives the name of the characters while the second line gives the decimal equivalents. For example, to turn Gemini 10-X underline on you would print#4,chr$(27)chr$(45)chr$(1). For Emphasized print you might print either chr$(27)chr$(69) or chr$(27)"E". Note that capitalization is important.

Functions flagged with "**" may be affected by your printer interface. In particular the Cardco interfaces change some characters and you may have to send different codes to accomplish these functions.

NED

NEWSLETTER EDITOR
READS WP FILES

```
0 "colin■util.■■■■■■" ■01
15    ">run me first<"
47    "fast.edit"
8     "wordmanager"
34    "speedscript"
10    "totl.text"
1     "control z"
2     "control s"
3     "easyscript"
2     "hes"
82    "wordpro"
2     "TEST"
3     "pclip wordpro cv"
32    "editor"
25    "writer.2"
69    "INSTRUCTIONS"
36    "prnt.seq.documnt"
10    "papermate"
23    ">-------<"
7     "wpro-es conv"
6     "wpro-papermate"
4     "WRITER INST"
5     "sd2 copier"
2     "diedoc"
33    "editor bu"
3     "papermate to wpr"
2     "write now 64"
4     "catprinter"
23    "80 label-it"
4     "viccat"
4     "tabby"
14    "vic 20 label-it"
10    "label-it.bas"
```

MCCC

N/L ARTICLES
AUG.-DEC. 1984

```
0 "cramer■■■■■■■■" ■08
2     "gem"
9     "charlie brown"
9     "preschool"
8     "colortone"
14    "gradebook"
3     "power supply"
7     "hesmodem"
6     "info news"
4     "12 command"
6     "managing disks"
3     "cobal request"
17    "easyscript +"
21    "creasy"
26    "paperclip"
9     "adventure"
31    "comal"
5     "tymac"
12    "bus card"
12    "startext"
18    "plus/4"
25    "incred mus keybd"
8     "ghostbusters"
10    "rama"
6     "equipment tips"
4     "space shuttle"
9     "d.program answer"
20    "luke dodds"
```

NEW LIBRARY DISKS

CCCC

N/L ARTICLES
FEB.-JUNE 1984

```
0 "ccccn/lfeb-jun84" ■n1
4     "joystick"
6     "1984 poem"
2     "news library"
12    "wedge"
12    "magazines"
14    "downloader"
18    "tips of month"
16    "cgr join em"
39    "notes+4/2"
9     "veep"
7     "pokes r pals 1"
4     "oki tips"
3     "oki cheat sheet"
11    "from the bbs"
15    "hardware apps 2"
25    "hardware gep"
14    "hardware apps"
24    "reviews gep"
12    "sx64"
6     "arrow"
7     "modem editing"
8     "modem questions"
25    "blackjack"
5     "bbs feb"
2     "801 warning"
2     "power pac"
15    "ml book"
3     "chaining"
5     "olivetti inter"
10    "disk dir labels"
13    "anatomy"
6     "typewriter inter"
15    "clone machine"
10    "speedscript conv"
5     "mag programs"
5     "convoice"
8     "first prog"
9     "color quest"
8     "basic conversion"
23    "data statements"
13    "kernal cookbook"
6     "disk id change"
2     "disk default"
10    "hackers-vandals"
20    "w/p notes"
14    "64 memory"
1     "filler poem"
7     "radio comm"
21    "hardware article"
8     "q & a rem"
15    "schools"
3     "hes mon bug"
4     "hes color"
4     "id"
5     "usr"
```

CCCC

N/L ARTICLES
JULY-NOV. 1984

```
0 "cccc■jul/aug■n/1" ■n2
41    "aug superbase rv"
3     "aug tymac tip"
16    "aug schools"
3     "aug 1984 #1"
2     "aug tip 2"
2     "aug tip 3"
16    "aug machine lang"
2     "aug tip 1"
3     "aug part dir"
4     "aug weird 2"
20    "jul 1 out of box"
17    "jul cbm's bussey"
7     "jul edu bussey"
8     "jul btrfield bbb"
13    "jul circ file rv"
32    "jul hashing"
10    "jul color quest7"
3     "jul tip of month"
15    "sep speed up bas"
50    "sep ez scpt ref"
9     "sep tech skerev"
12    "sep buscard rev"
21    "sep 1541 align"
5     "sep challenge rp"
1     "sep wedge tip"
1     "sep tip of month"
16    "oct cgr join em"
39    "oct notes on +4"
9     "oct veep"
7     "oct pokes r pals"
11    "oct from the bbs"
25    "oct hardware gep"
24    "oct reviews gep"
12    "oct sx64"
8     "nov leroycheat"
21    "nov softwarerev"
5     "nov tipofmonth"
5     "nov auto64direct"
5     "nov kwikload/rev"
5     "nov video"
```

THE NEWSLETTER EDITOR (NED) IS NEEDED TO READ ALL DISKS THAT CONTAIN ARTICLES INCLUDING ALL FILE DISKS ON THIS PAGE.

SFVCUG

N/L ARTICLES

```
0 "sfvcug■sep-nov■■" ■sn
1     "nl header"
19    "s.nl.page.fmt"
10    "s.front page"
3     "advertising.form"
3     "s.contents"
8     "s.pres.msg"
9     "s.original.pet"
2     "s.comal.guru"
9     "s.cheat notes"
31    "s.hashing"
3     "s.kbrd.joystick"
10    "s.application"
5     "s.es.commands"
22    "s.es.info"
3     "s.cheapies"
9     "s.cbu.action"
2     "s.pasadena.club"
4     "s.comal2.0"
3     "s.bbs.action"
3     "s.for.sale"
6     "s.msd.notes"
11    "s.hardware.bugs"
6     "s.rom.upgrades"
2     "s.wrapup"
2     "s.officers"
2     "s.map"
19    "o.page.fmt.pro"
3     "o.amdahl"
17    "o.es.steve"
4     "o.1541.saver"
3     "o.tymac.tip"
8     "o.insurance"
6     "o.insurance.pci"
6     "o.want.ad.es"
1     "nl header.pro"
9     "o.print.label"
14    "o.mail.bag"
6     "o.error23.fix"
6     "o.pres.msg"
3     "o.unlock"
3     "o.cool.1541"
5     "o.new.pgms"
7     "o.cbu.action"
2     "o.school.help"
4     "o.comal.news"
14    "o.club.news"
41    "o.print.cmd.132"
24    "o.print.com.132"
5     "o.print.com.txt"
1     "headlines.20"
3     "o.swap.meets"
3     "o.contents"
```

SFVCUG

TEXT ADVENTURES

```
0  "TEXT.ADVENTURES■" ■A2
1     "ADVBOOT"
49    "ADVENTURE"
9     "ADVF 0"
5     "ADVF 1"
2     "ADVF 10"
2     "ADVF 11"
2     "ADVF 12"
2     "ADVF 13"
5     "ADVF 2"
3     "ADVF 20"
7     "ADVF 21"
6     "ADVF 22"
5     "ADVF 23"
6     "ADVF 24"
7     "ADVF 25"
11    "ADVF 26"
6     "ADVF 27"
5     "ADVF 28"
1     "ADVF 29"
4     "ADVF 3"
7     "ADVF 31"
3     "ADVF 4"
4     "ADVF 5"
6     "ADVF 6"
3     "ADVF 7"
4     "ADVF 8"
4     "ADVF 9"
9     "ADVITM"
8     "ADVKEYS"
21    "ADVMAP"
18    "ADVSHOR"
91    "AFRICAN ADV"
47    "HS OF 7 GABLES"
10    "DREAMER ADVENT"
56    "STONEVILLE MANOR"
35    "SEA ROUTE TO IND"
102   "SUPER DOG STAR"
52    "CASTLE ADVN.C"
```

CCCC

UTILITY #4

```
0  "cccc■util ■#■4 ■■■■" ■u4
1     "dos loader"
2     "&"
34    "jhf file reader"
31    "c/alpha dir prt"
33    "cgr calendar"
6     "cgr gem dir pnt"
77    "database-fast"
3     "direct hex input"
57    "dsorter"
8     "format"
14    "fun basic 2"
10    "hebrew.char"
4     "joystick test"
6     "kr 20 student ev"
6     "lable maker 23"
4     "loadprogram"
1     "lower case print"
1     "memo sheet"
6     "menu"
7     "printlist"
7     "printlist lc"
6     "view bam"
1     "!!"
17    "wedge-64-$7000.c"
17    "wedge-64-$8000.c"
17    "wedge-64-$9000.c"
17    "wedge9"
17    "wedge-64-$c000.c"
17    "wedgec"
1     ">--------------<"
37    "1 docs to format"
33    "2 docs to view b"
17    "3 wedge-64 docs"
1     "----------------"
10    "read me"
1     "----------------"
```

TPUG

NOV. 1984

```
0  "tpug■nov■84.c ■■■■" ■td
17    "list-me (c)td.1"
18    "londonderry.c"
55    "classical gas.c"
23    "fibich poem.c"
31    "survey assist.c"
14    "dumpnoncomm.c"
7     " gdump+move"
40    ";pic 1 peanuts "
13    "tpugstory.c"
16    "phoenix.c"
23    "sousa.c"
110   "acctsr/t"
3     "acctsr/s"
1     "acctsr/pcf"
4     "acctsr/glb"
6     "acctsr/x"
77    "acctsr0/d"
18    "thunderbird.c"
20    "home file.c"
23    "lottery.c"
7     "stripped bonds.c"
8     "guess age.c"
24    "mini grades.c"
24    "subject shoot.c"
32    "grafixeditor.c"
9     "gxdigital set"
9     "gxfatletters"
9     "gxspace style"
5     "commands"
```

SFVCUG

PUBLIC AWARENESS

```
0  "JUSTTHEFACTSMAAM" ■F1
25    "HAMURABI"
21    "POWER INSTR."
18    "POWER PLANT"
25    "GEOGRAPHY"
15    "TAX COLLECTOR"
18    "EPIDEMIC"
22    "STOCK BROKER"
12    "BABY CARE"
43    "MARKET.C2"
42    "MONEY FLOW.C2"
45    "MORTGAGE.C2"
2     "POLUT"
26    "WATER"
25    "POLICY"
2     "USPOP"
5     "GOVT. DATA"
4     "PRICE.INDEX.DATA"
4     "INCOME.DATA"
4     "GNP.DATA"
```

MCCC

PROGRAM CONTEST
OCTOBER 1984

```
0  "MCCC■CONTEST■OCT" ■E4
0     "PERMISSION TO    "
0     "USE NOT TO SELL  "
0     "HAROLD  WILLIAMS"
0     "AUGUST  1984     "
0     "++++++++++++++++"
2     "MATH FLASH"
4     "TITLE.2"
9     "2XCHAR.6"
21    "FLASH.21"
0     "**************"
0     "CHUCK LAUE"
12    "LOAN SCHEDULE"
0     "**************"
0     "STEVE STOCKDALE"
32    "ADDRESS BOOK"
5     "CHECKBOOK BAL"
38    "HOME INVENTORY"
16    "MATH PRACTICE"
19    "LOANS/DEPOSITS"
0     "**************"
0     "BOB LAWSON"
14    "EL SHEISTER"
0     "**************"
0     "ELLEN TRIPLETT"
27    "RENTAL CONTRACT"
0     "**************"
0     "DANNIE SCATES"
17    "BAS LABEL DISASS"
0     "**************"
0     "JIM BERRY"
28    "INVENTORY"
5     "FILGEN"
17    "EXAMPLE/TXT"
1     "EXAMPLE/IDX"
0     "**************"
0     "BILL LEARY"
42    "TOMATO DISEASE"
27    "PRICER"
0     "**************"
0     "LARRY WITTMANN"
17    "SPEEDSCRIPT CMDS"
0     "**************"
0     "BILL AIKEN"
8     "PRINT AMORT TABL"
0     "**************"
0     "TOMMY HUGHES"
0     "----------------"
50    "DAM-BUSTERS"
0     " DAM-BUSTERS IS"
0     " AN UPGRADED"
0     " VERSION OF THE"
0     " ORIGINAL WHICH"
0     " DOES NOT WORK"
1     " ON THE C-64."
0     "----------------"
3     "LOAD-IT 7000"
0     "----------------"
5     "CLIMB-UP(INSTR.)"
13    "CLIMB-UP"
0     "----------------"
11    "FORTRESS(INSTR.)"
12    "FORTRESS"
0     "----------------"
13    "CASTLE(INSTR.)"
21    "CASTLE"
0     "----------------"
```

COMAL

USER GROUP #6

```
0  "ug ■#6 ■■■■■■■■■■" ■b0
6     "boot c64 comal"
131   "c64 comal 0.14"
5     "comalerrors"
17    "hi"
1     "----FEATURED----"
1     "----PROGRAM-----"
27    "game'unfin"
1     "---DATA FILES---"
1     "--DO NOT LOAD---"
2     "lakeside"
5     "e"
4     "f"
32    "g"
4     "tbsk"
4     "cmk"
32    "kbit"
32    "farmbit"
4     "farmtbs"
4     "farmcm"
32    "treebit"
4     "treetbs"
4     "treecm"
3     "help1"
4     "cbit"
5     "ctbs"
32    "ccm"
2     "help2"
1     "---PROCEDURES---"
1     "beep.proc"
2     "cat'.proc"
5     "tod.proc"
3     "wait'n'go.proc"
1     "cursor.proc"
1     "----UTILITY-----"
1     "----PROGRAMS----"
20    "dir'print'nec"
5     "imp.dump"
24    "pretty printer"
26    "disk'editor"
9     "dual epson.dump"
4     "expand'comal"
1     "-DEMO  PROGRAMS-"
3     "city patterns"
5     "comaldice"
2     "flower'judy"
5     "fractal"
16    "galactic news"
3     "orbit'circle"
13    "pitfall harry"
10    "polyhedron"
16    "queens"
14    "random keyframes"
3     "sphere'plot"
8     "traffic.light"
8     "variable boxtree"
2     "yarn'art1"
```

COMAL 0.14

PROCEEDURES & FUNCTIONS

```
0 "procs&funcs■■■■■" ■d3
6    "bootcomal.bas"
131  "c64 comal 0.14"
5    "comalerrors"
14   "hi"
13   "copy files.bas"
1    "control.1"
13   "link'program"
6    "accept.1"
1    "acos.1"
2    "arc'as.1"
1    "arc.1"
1    "arcl.1"
1    "arcr.1"
1    "ascii.1"
1    "asin.1"
1    "aspect.1"
1    "back'color.1"
1    "bin'str.1"
1    "bin.1"
1    "bit'ml.1"
1    "bitand.1"
1    "bitor.1"
1    "bitxor.1"
1    "border'color.1"
2    "bubsort'str.1"
1    "bubsort.1"
1    "cen.1"
2    "circle'as.1"
1    "circle.1"
1    "clearcoll.1"
5    "convert.1"
1    "cot.1"
1    "create.1"
1    "csc.1"
1    "curcol.1"
1    "currow.1"
1    "cursor.1"
2    "date.1"
2    "day'of'week.1"
1    "day'of'year.1"
1    "deg.1"
1    "delay.1"
4    "disk'get.1"
1    "draw.1"
3    "easter.1"
1    "eps.1"
1    "expb.1"
1    "fah.1"
1    "fp.1"
1    "get.1"
1    "getspritecolor.1"
1    "graphicstate.1"
3    "heading.1"
1    "hex'str.1"
1    "hex.1"
1    "inf.1"
1    "inkey.1"
2    "insertsort'str.1"
1    "insertsort.1"
1    "ip.1"
1    "jiffies.1"
2    "joystick.1"
2    "koala.1"
2    "leap'year.1"
1    "lightpen.1"
2    "load'screen.1"
1    "logb.1"
1    "lpad.1"
1    "ltrm.1"
1    "lwrc.1"
1    "matadd.1"
1    "match'r.1"
1    "matequal.1"
4    "matinvert.1"
1    "matmult.1"
1    "matscale.1"
1    "mattransp.1"
1    "matunit.1"
1    "matvec.1"
1    "max.1"
1    "maxlen.1"
1    "metric.1"
1    "min.1"
1    "mount.1"
1    "move.1"
2    "obj'load.1"
3    "obj'save.1"
2    "paddle.1"
1    "page.1"
1    "pen'color.1"
1    "penstate.1"
1    "pi.1"
8    "play.1"
10   "plot'char.1"
2    "poly'as.1"
2    "poly.1"
1    "print'at.1"
1    "put'char.1"
2    "quicksort'str.1"
2    "quicksort.1"
1    "rad.1"
1    "randomize1.1"
1    "randomize2.1"
1    "rect.1"
1    "remain.1"
1    "replace'char.1"
2    "replace'str.1"
1    "reverse.1"
1    "rpad.1"
1    "rtrm.1"
3    "save'screen.1"
1    "screen'char.1"
1    "sec.1"
1    "select'lc.1"
2    "set'time.1"
3    "settime.1"
1    "setx.1"
1    "sety.1"
2    "shellsort'str.1"
2    "shellsort.1"
1    "shift'wait.1"
1    "showsprite.1"
1    "shuffle'str.1"
1    "shuffle.1"
5    "sid.1"
1    "sin2.1"
1    "spritestate.1"
1    "spritexcor.1"
1    "spritexsize.1"
1    "spriteycor.1"
1    "spriteysize.1"
2    "squeeze.1"
1    "star.1"
1    "swap'str.1"
1    "swap.1"
1    "translate.1"
1    "turtle'size.1"
1    "turtlestate.1"
1    "uprc.1"
2    "val.1"
1    "xcor.1"
1    "ycor.1"
```

COMAL 2.0

DEMO DISK

```
0 "handbook■disk■■■■" ■ /1
1    "abs"
2    "and1"
2    "and2"
2    "append"
2    "at"
1    "atn"
2    "bitand"
2    "bitor1"
1    "bitor2"
2    "case"
2    "chain"
1    "chr$1"
1    "chr$2"
2    "close"
1    "closed"
3    "con"
2    "copy"
1    "cos"
1    "cursor"
2    "data"
2    "delete"
1    "dim1"
2    "dim2"
2    "dim3"
2    "div"
1    "do1"
1    "do2"
2    "elif"
2    "else"
1    "end"
2    "endcase"
1    "endfor"
2    "endfunc"
2    "endif"
2    "endloop"
2    "endproc"
2    "endtrap"
2    "endwhile"
2    "eod"
1    "eof"
2    "err"
2    "errfile"
2    "errtext"
2    "esc"
2    "exec"
2    "exit"
1    "exp"
2    "external"
2    "false"
1    "file"
4    "find"
2    "for"
2    "func"
2    "func2"
2    "get$1"
2    "get$2"
2    "handler"
2    "if"
2    "import"
2    "in"
1    "input1"
2    "input2"
1    "input3"
1    "int"
3    "interrupt"
1    "key$"
2    "label"
1    "len"
1    "let"
1    "log"
2    "loop"
3    "mod"
2    "mount"
1    "not1"
2    "not2"
2    "null"
1    "of"
1    "open"
1    "or1"
2    "or2"
2    "ord"
2    "otherwise"
3    "page"
1    "pass"
2    "peek1"
1    "peek2"
2    "poke1"
2    "print"
2    "printfile"
2    "proc"
3    "random"
2    "randomize"
2    "read1"
1    "read2"
2    "read3"
1    "read4"
2    "ref"
1    "rename"
1    "repeat"
2    "report"
2    "restore"
2    "return"
2    "run"
1    "status$"
1    "step"
3    "stop"
1    "str$"
2    "tab"
1    "tan"
2    "then"
1    "time"
2    "to"
1    "trap"
1    "true"
1    "until"
1    "using1"
3    "using2"
1    "val"
2    "when"
2    "while"
2    "write1"
2    "write2"
3    "write3"
2    "zone1"
2    "zone2"
1    "dat.account'list"
7    "dat.random'input"
5    "dat.random'read"
1    "dat.test'loop"
1    "dat.visitor"
1    "dat.visitor'read"
1    "dat.winners"
2    "ext.add"
2    "ext.sub"
96   "presentation"
30   "pkg.francais"
27   "singledrive'copy"
11   "dual'drive'copy"
27   "ext.edit 40"
```

TPUG

OCT. 1984

```
0 "tpug■oct■84.c■■■"■tc
19    "list-me (c)tc.l"
2     "not baid boot.c"
5     "not basic aid 64"
34    "nba 64 src pal"
2     "slot.c"
6     "slot.data"
35    "slot.prg"
21    "whirlybird.c"
22    "odin.c"
35    "mountain.c"
20    "jukebox.c"
2     "ghost boot.c"
26    "ghostbusters"
2     "rocky 3 boot.c"
24    "rocky 3 theme"
2     "stairway boot.c"
44    "stairway"
2     "beat it boot.c"
39    "beat it"
2     "billie boot.c"
43    "billie jean"
15    "64aid"
74    "encounter.speed"
32    "rtl-64"
1     "intro"
1     "clearing 1"
4     "intro 2"
1     "intro 3"
2     "death 5"
1     "woods"
1     "test"
1     "start"
2     "briefing"
1     "car"
3     "mine"
1     "briefing 2"
1     "header"
4     "clearing"
1     "clearing 2"
1     "open"
2     "death 2"
3     "entrance"
1     "mercury"
2     "reception"
1     "reception 2"
1     "chair"
2     "hand"
1     "venus"
4     "ins 1"
2     "earth"
1     "mars"
1     "jupiter"
1     "saturn"
1     "uranus"
1     "neptune"
3     "pluto"
3     "ins 2"
4     "ins 3"
2     "flight"
3     "death 3"
4     "trip"
2     "trip 1"
2     "trip 2"
1     "obser 1"
3     "landing"
1     "home 2"
2     "observ"
1     "obser 2"
2     "obser 3"
2     "obser 4"
2     "obser 5"
1     "obser 6"
3     "death 4"
1     "storage"
2     "flashlight"
1     "fuel"
1     "ray"
2     "engine"
1     "takeoff 1"
1     "takeoff 2"
1     "takeoff 3"
1     "takeoff 4"
1     "takeoff 5"
4     "home 1"
2     "start 1"
24    "nos translator.c"
```

CCCC

SUBROUTINES

```
0 "cccc■ub■routine"■er
1     "dos loader"
2     "&"
1     "001  ### starter"
2     "001-022 always"
1     "023  ### input"
5     "023-062 get"
5     "063-097 get ml"
1     "098-102 get crsr"
1     "103-106 chng prm"
1     "107-110 default "
1     "111-112 no null"
1     "113-119 toggle"
1     "120-121 scrn inp"
1     "122  ### screen"
2     "122-131 flash rc"
2     "132-140 flash ct"
2     "141-148 flash ct"
1     "149-150 locate"
1     "151-153 locate"
1     "154-155 center"
1     "156-161 border"
2     "162-170 border t"
1     "171-176 crsr wrt"
1     "177-182 poke all"
1     "183-187 poke scr"
1     "188-195 message"
1     "196-199 blank sc"
1     "200-201 set clr"
2     "202-209 test clr"
1     "210-211 line del"
2     "212-227 menu"
1     "228-229 scr>asc"
1     "230-235 asc>scr"
1     "236  ### sounds"
4     "237-267 sound"
1     "268  ### sorts"
7     "268-343 sorts"
1     "344  ### disk"
4     "344-368 dir scrn"
2     "369-384 dir mem"
1     "385-387 read err"
1     "388-394 blcks fr"
1     "395-400 load/run"
1     "401-402 load ml"
2     "403-421 save ml"
1     "422-430 eof"
2     "431-439 seq read"
1     "440  ### time"
2     "440-458 time"
2     "459-473 date chk"
2     "474-483 weekday"
2     "484-493 yearday"
3     "494-507 # days"
1     "508  ### miscell"
1     "508-515 dec>hex"
1     "516-522 hex>dec"
1     "523-527 max"
1     "528-532 min"
1     "533-538 min/max"
1     "539-544 rounding"
1     "545-549 n places"
1     "550-551 random"
1     "552-557 rnd arra"
1     "558-559 delete +"
2     "560-569 replace"
3     "570-592 mult chc"
5     "593-629 mult chc"
1     "630-632 fre mem"
4     "633-664 numbers"
2     "665-678 pokes"
1     "----------------"
65    "read me"
8     "read me tooo'"
1     "------ -- ------"
3     "auto data/delete"
5     "auto data/ml"
3     "color chart"
5     "create loader"
2     "data input"
8     "format"
2     "garbage demo"
3     "hex input"
2     "joystick"
1     "old"
1     "+++++++++++++++"
34    "jhf file reader"
9     "dir print2 oki"
1     "++  cccc inc  ++"
```

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AND GEORGE POPE
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The MCCC NEWS is printed by

a.s.a.p. INSTA-PRINT

284-5841

7127 Grapevine Hwy.
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